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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/748,759	12/21/2000	Dana Blair	CISCP550	4515
26541	7590	11/02/2004	EXAMINER	
RITTER, LANG & KAPLAN 12930 SARATOGA AE. SUITE D1 SARATOGA, CA 95070			BEAMER, TEMICA M	
			ART UNIT	PAPER NUMBER
			2681	

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/748,759

**Applicant(s)**

BLAIR ET AL.

**Examiner**

Temica M. Beamer

**Art Unit**

2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments filed 9/14/2004 have been fully considered but they are not persuasive.

Applicant argues that Agrawal fails to disclose the newly added limitation of a "call agent performing call control operations for both mobile and non-mobile calls". However, upon further review of Agrawal, the examiner disagrees.

Agrawal discloses a gatekeeper that acts as an agent to perform call control operations for a call (col. 7, lines 42-col. 8, line 40). Agrawal also teaches wherein the gatekeeper is connected to a gateway, wherein the gateway interworks with other telecommunication systems such as ATM, ISDN and POTS (col. 5, lines 2-14; figure 1). Agrawal further discloses wherein the gatekeeper (call agent) acts as the central point for **all calls** within its zone and provides call services to registered endpoints.

Therefore, based on the functionality of the gatekeeper (i.e., central point for all calls) and its connection to the gateway (which interconnects with POTS [i.e., the PSTN which handles non-mobile calls], the examiner has shown that the gatekeeper/call agent can perform operations for mobile and non-mobile calls.

Based on the above remarks, the rejection stands as set forth below.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Agrawal et al (Agrawal), U.S. Patent No. 6,628,943.

Regarding claims 1 and 33, Agrawal discloses in a data communication network for supporting mobile users, a method of operating a mobile control function, said method comprising: exchanging information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 9-41); exchanging call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40), said call agent performing call control operations for both mobile and non-mobile calls (col. 5, lines 2-39), and maintaining connection state information for said mobile station while said mobile station is handled via said radio access network (col. 8, lines 41-50).

Regarding claims 2 and 34, Agrawal discloses the method of claims 1 and 33 further comprising: upon receipt of a handoff request from said radio access network, transferring responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Regarding claim 3, Agrawal discloses the method of claim 1 wherein exchanging call control information comprises exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 4, Agrawal discloses in a data communication network for supporting mobile users, a method of operating a call agent, said method comprising: performing call control operations for both mobile and non-mobile calls (col. 5, lines 2-39) exchanging call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); and maintaining call state information for said mobile station (col. 8, lines 41-50).

Regarding claim 5, Agrawal discloses the method of claim 4 further comprising: upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, exchanging call control information with said second mobile control function; continuing to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Regarding claim 6, Agrawal discloses the method of claim 4 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Regarding claim 7, Agrawal discloses the method of claim 4 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 8, Agrawal discloses the method of claim 4 wherein exchanging call control information comprises exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 9, Agrawal discloses for use in a data communication network for supporting mobile users, a computer program product for operating a mobile control function (col. 10, lines 7-62; figure 6), said product comprising code that causes a processor to exchange information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 19-41), code that causes said processor to exchange call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40), said call agent performing call control operations for both mobile and non-mobile calls (col. 5, lines 2-39), code that causes said processor to maintain call state information for said mobile station while said mobile station is handled via said radio access network (col. 7, line 42-col. 8, line 40); and a computer-readable storage medium that stores the codes (figure 6).

Regarding claim 10, Agrawal discloses the computer program product of claim 9 further comprising code that, upon receipt of a handoff request from said radio access network, code causes said processor to transfer responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Regarding claim 11, Agrawal discloses the computer program product of claim 9, wherein said code that causes said processor to exchange call control information

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comprises code that exchanges call control information via an IP network (col. 18, lines 37-55).

Regarding claim 12, Agrawal discloses for use in a data communication network for supporting mobile users, a computer program product for operating a call agent (col. 10, lines 7-62; figure 6), said product comprising that causes a processor to perform call control operations for both mobile and non-mobile calls (col. 5, lines 2-39), code that causes said processor to exchange call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); code that causes said processor to maintain call state information for said mobile station (col. 8, lines 41-50) and inherently computer-readable storage medium that stores the code (figure 6).

Regarding claim 13, Agrawal discloses the product of claim 12 further comprising: code that upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, causes said processor to exchange call control information with said second mobile control function; and code that causes said processor to continue to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Regarding claim 14, Agrawal discloses the product of claim 12 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Regarding claim 15, Agrawal discloses the product of claim 12 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 16, Agrawal discloses the product of claim 12 wherein said code that causes said processor to exchange call control information comprises code that causes said processor to exchange call control information via an IP network (col. 18, lines 37-55).

Regarding claim 17, Agrawal discloses for use in a data communication network for supporting mobile users, an apparatus for operating a mobile control function, said method comprising: a processor that executes software; and a computer-readable storage medium that stores said software, said software comprising (col. 10, lines 1-62; figure 6): code that causes said processor to exchange information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 19-41); code that causes said processor to exchange call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40), said call agent performing call control operations for both mobile and non-mobile calls (col. 5, lines 2-39); and code that causes said processor to maintain connection state information for said mobile station while said mobile station is handled via said radio access network (col. 1, lines 41-50).

Regarding claim 18, Agrawal discloses the apparatus of claim 17 wherein said software further comprises: code that, upon receipt of a handoff request from said radio



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access network, that causes said processor to transfer responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Regarding claim 19, Agrawal discloses the apparatus of claim 17 wherein said code that exchanges call control information comprises code that exchanges call control information via an IP network (col. 8, lines 37-55).

Regarding claim 20, Agrawal discloses for use in a data communication network for supporting mobile users, apparatus for operating a call agent, said apparatus comprising: a processor that executes software; a computer-readable storage medium that stores said software, said software comprising (col. 10, lines 1-62; figure 6): code that causes a processor to perform call control operations for both mobile and non-mobile calls (col. 5, lines 2-39), code that causes said processor to exchange call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, line 19-col. 8, line 40); and code that causes said processor to maintain call state information for said mobile station (col. 8, lines 41-50).

Regarding claim 21, Agrawal discloses the apparatus of claim 20 wherein said software further comprises: code that upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, causes said processor to exchange call control information with said second mobile control function; and code that causes said processor to continue to maintain call state information for said mobile station while said second mobile control

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function maintains connection state information for said mobile station (col. 18, lines 37-55).

Regarding claim 22, Agrawal discloses the apparatus of claim 20 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Regarding claim 23, Agrawal discloses the apparatus of claim 20 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 24, Agrawal discloses the apparatus of claim 20 wherein said code that exchanges call control information comprises code that exchanges call control information via an IP network (col. 18, lines 37-55).

Regarding claim 25, Agrawal discloses in a data communication network for supporting mobile users, apparatus for operating a mobile control function, said apparatus comprising: means for exchanging information with a mobile station via a radio access network according to a radio access network protocol (col. 5, lines 40-55, col. 7, lines 19-41); means for exchanging call control information with a call agent associated with a call of said mobile station (col. 7, line 42-col. 8, line 40), said call agent performing call control operations for both mobile and non-mobile calls (col. 5, lines 2-39); and means for maintaining connection state information for said mobile station while said mobile station is handled via said radio access network (col. 8, lines 41-50).

Regarding claim 26, Agrawal discloses the apparatus of claim 25 further comprising: means for, upon receipt of a handoff request from said radio access network, transferring responsibility for maintaining connection state information to another mobile control function (col. 18, lines 37-55).

Regarding claim 27, Agrawal discloses the apparatus of claim 25 wherein said means for exchanging call control information comprises means for exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 28, Agrawal discloses in a data communication network for supporting mobile users, apparatus for operating a call agent, said apparatus comprising: means for performing call control operations for both mobile and non-mobile calls (col. 5, lines 2-39); means for exchanging call control information with a first mobile control function responsible for mobility management of a mobile station having a call handled by said call agent (col. 5, lines 40-55, col. 7, lines 19-41); and means for maintaining call state information for said mobile station (col. 8, lines 41-50).

Regarding claim 29, Agrawal discloses the apparatus of claim 28 further comprising: means for, upon a shift of responsibility for mobility management of said mobile station from said first mobile control function to a second mobile control function, exchanging call control information with said second mobile control function; and means for continuing to maintain call state information for said mobile station while said second mobile control function maintains connection state information for said mobile station (col. 18, lines 37-55).

Regarding claim 30, Agrawal discloses the apparatus of claim 28 wherein said call control information comprises an indication of an inbound call for said mobile station (col. 5, lines 40-55, col. 6, lines 32-43).

Regarding claim 31, Agrawal discloses the apparatus of claim 28 wherein said call control information comprises an indication of a dialed call from said mobile station (col. 6, lines 1-19).

Regarding claim 32, Agrawal discloses the apparatus of claim 28 wherein said means for exchanging call control information comprises means for exchanging call control information via an IP network (col. 18, lines 37-55).

Regarding claim 35, Agrawal discloses the network of claim 33, wherein said connection state information is mobile registered or session active (col. 8, lines 41-50, col. 12, lines 32-61 and col. 14, line 51-col. 15, line 26).

Regarding claim 36, Agrawal discloses the network of claim 33, wherein said call state information is connected, call in progress, releasing, suspend or busy (col. 8, lines 41-50, col. 12, lines 32-61 and col. 14, line 51-col. 15, line 26).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tuunanen et al, U.S. Patent No. 6,418,197, discloses a method of playing announcements in a telecommunication network exchange and further discloses wherein a call agent handles both mobile and non-mobile calls (col. 6, lines 24-32).

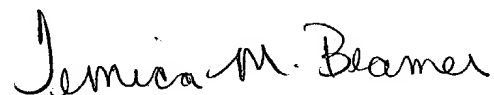
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Beamer whose telephone number is (703) 306-5837. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (703) 308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temica M. Beamer  
Examiner  
Art Unit 2681

October 31, 2004

A handwritten signature in black ink that reads "Temica M. Beamer". The signature is written in a cursive, flowing style.